

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF TRAFFIC SIGNAL AT THE INTERSECTION OF MD 450 (ANNAPOLIS ROAD) AT BLADENSBURG ELEMENTARY SCHOOL ENTRANCE IN PRINCE GEORGE'S COUNTY TO CHANGE THE EXISTING LEFT TURN PHASE FROM PERMISSIVE TO EXCLUSIVE/PERMISSIVE FOR BOTH EASTBOUND AND WESTBOUND MD 450 APPROACHES. ADDITIONAL VIDEO DETECTION WILL BE INSTALLED FOR BOTH EASTBOUND AND WESTBOUND MD 450 LEFT TURN BAYS. MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR BOTH EASTBOUND AND WESTBOUND MD 450 APPROACHES. MD 450 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY AND SCHOOL ENTRANCES WILL ALSO OPERATE CONCURRENTLY. THERE ARE PEDESTRIAN PHASES FOR NORTH AND SOUTH LEGS OF THE INTERSECTION. THERE IS AN ALTERNATIVE PEDESTRIAN PHASE FOR WEST LEG OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XX5255185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
9571	8	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
5001	2	EA	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKINGS SYMBOLS OR LEGENDS
5002	165	LF	5" HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5003	110	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5006	41	SF	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
8001	14	EA	12 INCH LED SIGNAL HEAD SECTION
8004	6	EA	8 INCH LED SIGNAL HEAD SECTION
8027	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8032	2	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8045	8	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8061	370	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
NEG	2	EA	TO BE NEGOTIATED - RELOCATE EXISTING SIGNAL HEAD

C. EQUIPMENT TO BE REMOVED.

ALL OTHER EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

CONTACTS

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Assistant District Engineer - Traffic  
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Assistant District Engineer - Maintenance  
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Utility Engineer  
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Mrs. Corren Johnson  
Chief, Traffic Operations Division  
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Mr. Ed Rodenhizer  
Supervisor, Signal Operations  
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Mr. Sonny Bailey  
Supervisor, Sign Shop  
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Supervisor, Signal Warehouse  
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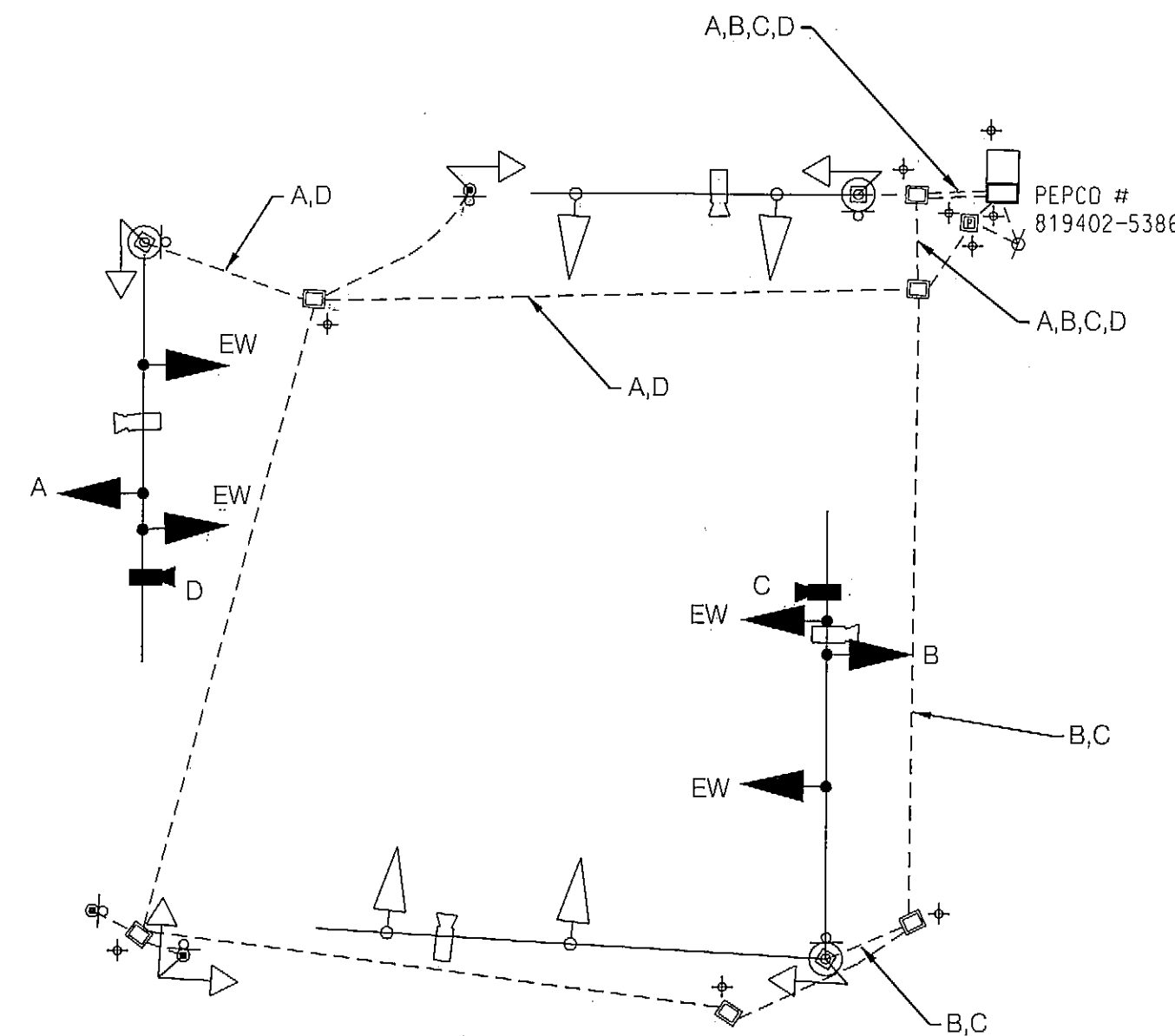
Power Company Representative - PEPCO (PG)  
Mr. Richard Chilcoat, Service Associate  
PEPCO Engineering  
8800 Old Marlboro Pike  
Upper Marlboro, MD 20772  
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email: rachilcoat@pepco.com

MD 450 IS ASSUMED TO RUN  
IN AN EAST/WEST DIRECTION

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 AND 5	←G/R	←G/R	R	←G/R	←G/R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																
PHASE 1 AND 6	←G/G	←G/G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 CHANGE	←Y/G	←Y/G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←G/G	←G/G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
5 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	DW	DW	WK	WK	WK	WK
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 AND 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT AND 8	R	R	R	R	R	R	G	G	G	G	WK	WK	DW	DW	DW	DW
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	DW	DW	DW	DW
4 ALT AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A, B } 7 CONDUCTOR ELECTRICAL CABLE  
(NO. 14 AWG)  
C, D } VIDEO CAMERA CABLE  
+ } EXISTING GROUND ROD

TOD NO: XX525-02  
SHA NO: PG072B52  
MD 450 @ Bladensburg Elementary School

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 450 (ANNAPOLIS ROAD) AT  
BLADENSBURG ELEMENTARY SCHOOL  
BLADENSBURG, MARYLAND

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 05/2013 CONTRACT NO. XX5255185

DESIGNED BY JC COUNTY PRINCE GEORGE'S  
DRAWN BY JC LOGMILE 160045000.59  
CHECKED BY RM #17 TMS NO. L540  
F.A.P. NO. TOD NO.

TS NO. 540-B DRAWING SG-2 OF 2 SHEET NO. 2 OF 2

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PLOTTED: Monday, May 20, 2013 AT 01:15 PM  
FILE: P:\09-002 TEDD\Task 121 MD 450 @ Bladensburg ES\Drawings\CADD\Working\pSG-P003\_MD450@BladensburgES.dgn

BY: fanyong